

AMENDMENTS TO THE CLAIMS

1. (currently amended) An assembling device for a plastic-lens-forming casting mold characterized by comprising

~~a gasket clamping mechanism which clamps a casting gasket from an axial direction thereof, a gasket clamping mechanism which clamps each end face of a casting gasket from an axial direction thereof.~~

a first mold push-in mechanism which pushes one mold fitted in one open end of said casting gasket into said casting gasket, and

a second mold push-in mechanism which pushes the other mold fitted in the other open end of said casting gasket into said casting gasket to oppose said one mold at a predetermined gap.

2. (original) An assembling device for a plastic-lens-forming casting mold according to claim 1, characterized in that said gasket clamping mechanism and second mold push-in mechanism are disposed to be able to relatively come close to and separate from each other.

3. (original) An assembling device for a plastic-lens-forming casting mold according to claim 1, characterized in that

    said gasket clamping mechanism includes first and second clamping means which oppose each other and is disposed such that at least one of said first and second clamping means is able to come close to and separate from the other to clamp said casting gasket from the axial direction, and a clamping driving unit which drives at least one of said first and second clamping means, and

    said casting gasket is set on said second clamping means while said molds are fitted in two open ends of said gasket, and said second clamping means has a fitting groove which fits on a peripheral portion of the other mold which is pushed in by said second mold push-in mechanism.

4. (original) An assembling device for a plastic-lens-forming casting mold according to claim 3, characterized in that

    said gasket clamping mechanism includes two opposing plates which are disposed to be slidable along a guide post,

    one of said two plates includes first clamping means and a clamping driving unit which moves said one plate along said guide post to urge said first clamping means against one open end face of said casting gasket, and

    the other one of said two plates includes detachable second clamping means and a gasket-moving driving unit which integrally moves said two plates toward said second mold push-in mechanism along said guide post while said first and second clamping means clamp said casting gasket.

5. (original) An assembling device for a plastic-lens-forming casting mold according to claim 3, characterized in that

    said first mold push-in mechanism includes a mold push-in member which is reciprocally fitted and inserted in said first clamping means, and a mold push-in driving unit which urges said mold push-in member against a corresponding one of said molds, and

    said second mold push-in mechanism includes a plurality of push pins which are biased in enlarging directions to abut against an inner surface of said second clamping means.

6. (original) An assembling device for a plastic-lens-forming casting mold according to claim 5, characterized in that said push pins are disposed such that heights thereof are adjustable.

7. (original) An assembling device for a plastic-lens-forming casting mold according to claim 1, characterized by further comprising a mold push-moving amount adjusting mechanism which adjusts a mold push-moving amount of said second mold push-in mechanism.

8. (original) An assembling device for a plastic-lens-forming casting mold according to claim 7, characterized in that said mold push-moving amount adjusting mechanism includes a spline shaft, an adjusting driving unit which rotates said spline shaft, an adjusting

screw which is slidably spline-coupled to said spline shaft, a stationary nut which threadably engages with said adjusting screw, and a stopper which is provided to said gasket clamping mechanism to limit movement of said adjusting screw.

9. (original) An assembling method for a plastic-lens-forming casting mold characterized by comprising

the step of fitting and temporarily fixing a pair of molds in two open ends of a casting gasket integrally having a positioning projection projecting from an inner surface of the casting gasket such that lens-forming optical surfaces of the pair of molds come inside,

the step of clamping the casting gasket by a pair of clamping means from an axial direction,

the first mold push-in step of pushing one of the pair of molds into the gasket by first push-in means to urge the mold against the projection, and

the second mold push-in step of pushing the other mold into the gasket by second push-in means for a predetermined amount.

10. (original) An assembling method for a plastic-lens-forming casting mold according to claim 10, characterized in that the second mold push-in step includes the step of pressing a peripheral portion of a surface of the other mold which is opposite to a lens-forming optical surface by using, as the second push-in means, a plurality of pins which are biased in enlarging directions.

11. (original) An assembling method for a plastic-lens-forming casting mold according to claim 10, characterized in that the step of pressing the peripheral portion of the surface of the other mold which is opposite to the lens-forming optical surface includes the step of providing the plurality of pins such that heights thereof are adjustable individually and independently of each other.

12. (original) An assembling method for a plastic-lens-forming casting mold according to claim 9, characterized in that the second mold push-in step includes the step of

pressing a flat surface which is formed on an outer peripheral portion of a concave surface of the other mold.

13. (original) An assembling method for a plastic-lens-forming casting mold according to claim 9, characterized by further comprising the step of setting a push-moving amount of the second push-in means for the other mold to match a type of a lens.

14. (new) An assembling device for a plastic-lens-forming casting mold according to claim 1, characterized in that said gasket clamping mechanism includes first and second clamping means which clamp said casting gasket from an axial direction thereof by being urged against each open end face of said casting gasket.

15. (new) A molded product formed by an assembling device for a plastic-lens-forming casting mold, said assembling device comprising

a gasket clamping mechanism which clamps each end face of a casting gasket from an axial direction thereof,

a first mold push-in mechanism which pushes one mold fitted in one open end of said casting gasket into said casting gasket, and

a second mold push-in mechanism which pushes the other mold fitted in the other open end of said casting gasket into said casting gasket to oppose said one mold at a predetermined gap.

16. (new) A molded product formed by an assembling method for a plastic-lens-forming casting mold, the assembling method comprising